

Title (en)

Crystalline aluminophosphates and related compounds.

Title (de)

Kristalline Aluminophosphate und verwandte Verbindungen.

Title (fr)

Aluminophosphates cristallins et composés apparentés.

Publication

**EP 0380825 A2 19900808 (EN)**

Application

**EP 89203341 A 19891228**

Priority

GB 8902083 A 19890131

Abstract (en)

Crystalline aluminophosphates and related compounds having in the as-synthesized anhydrous form the chemical composition:  $mR(X_nAl_qP_x)_2$ , wherein R represents ethylenediamine, X represents one or more elements which can be substituted for Al and/or P, wherein  $m = 0.01-0.33$ ,  $n = 0-0.50$ ,  $q = 0.30-0.60$ ,  $x = 0.30-0.60$  and wherein  $n + q + x = 1$ , and having an X-ray diffraction pattern containing at least the following lines:  
<IMAGE> The compounds can be prepared from a forming solution or gel comprising a source of aluminium, a source of phosphorus, a source of ethylenediamine and optionally a source of at least one component X, which mixture is kept at elevated temperature for a period of time sufficient to produce a crystalline aluminophosphate or related compound followed by separating off the crystalline product obtained and drying, and which may subsequently be calcined.

IPC 1-7

**B01J 29/02**; **C01B 25/36**; **C01B 25/45**; **C01B 33/26**; **C01B 35/14**

IPC 8 full level

**B01J 20/02** (2006.01); **B01J 27/18** (2006.01); **B01J 29/83** (2006.01); **B01J 29/84** (2006.01); **B01J 29/85** (2006.01); **C01B 25/36** (2006.01); **C01B 35/12** (2006.01); **C01B 35/14** (2006.01); **C01B 37/04** (2006.01); **C01B 37/06** (2006.01); **C01B 37/08** (2006.01); **C01B 39/54** (2006.01)

CPC (source: EP US)

**B01J 29/83** (2013.01 - EP US); **B01J 29/84** (2013.01 - EP US); **B01J 29/85** (2013.01 - EP US); **C01B 35/1009** (2013.01 - EP US); **C01B 37/04** (2013.01 - EP US); **C01B 37/065** (2013.01 - EP US); **C01B 37/08** (2013.01 - EP US)

Cited by

EP0538958A1; US5294429A; DE102010055729A1; US8904667B2

Designated contracting state (EPC)

BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

**US 5049366 A 19910917**; CA 2008755 A1 19900731; EP 0380825 A2 19900808; EP 0380825 A3 19920122; GB 8902083 D0 19890322; JP H02243506 A 19900927

DOCDB simple family (application)

**US 46830790 A 19900122**; CA 2008755 A 19900129; EP 89203341 A 19891228; GB 8902083 A 19890131; JP 1632390 A 19900129